

# Your NOAA National Weather Service

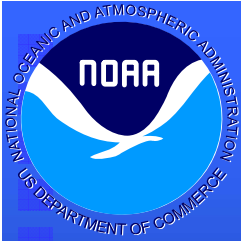


**A commitment to Climate Services  
in a national and local partnership  
with U.S. Climate Community**

Bill Proenza, Director  
National Weather Service Southern Region

**Santa Fe, NM**

August 1, 2006



# NOAA/NWS organized under 4 major contiguous Regions and 2 State Regions

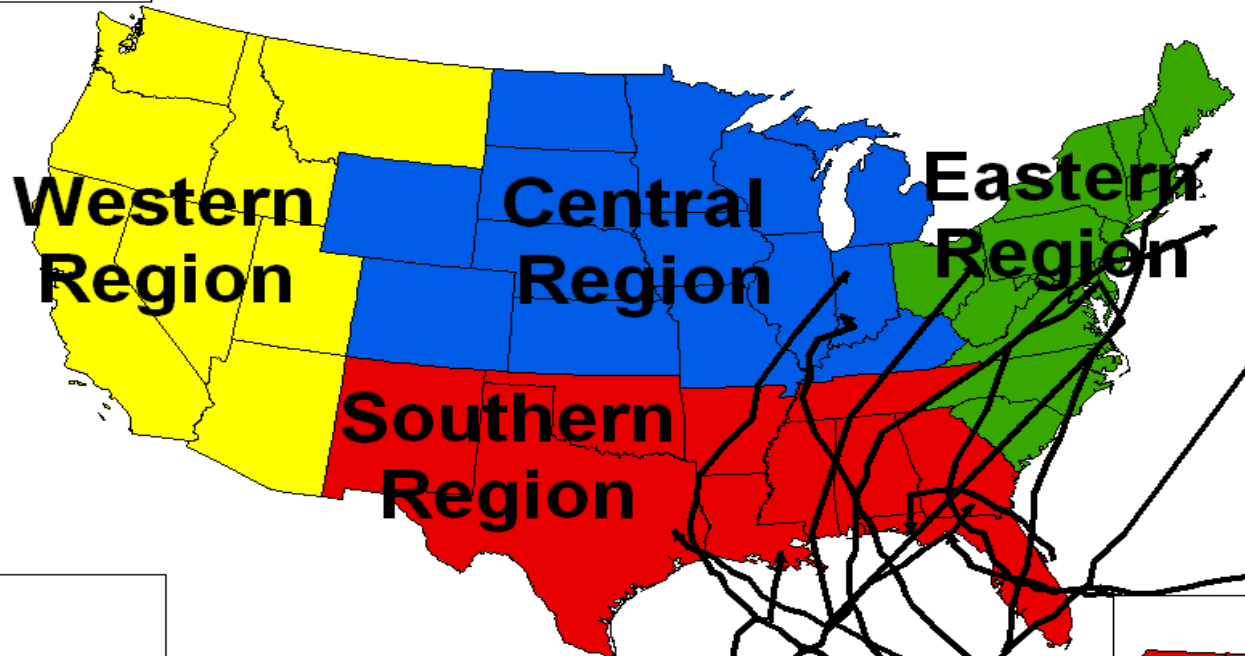


NWS Southern Region



**Alaska Region**

*(based on areas with similar meteorological challenges)*



Hawaii and Guam

**Pacific Region**

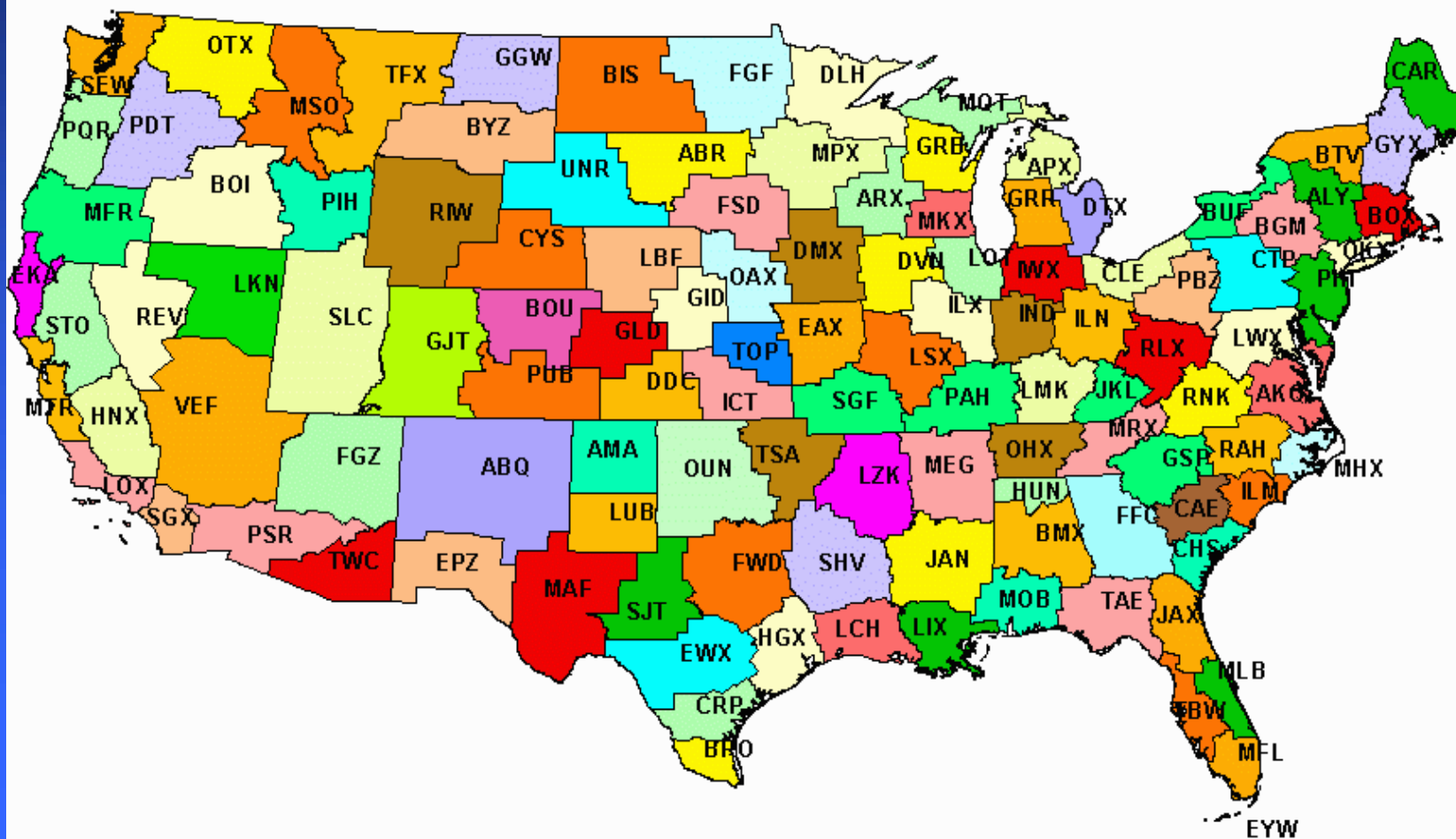
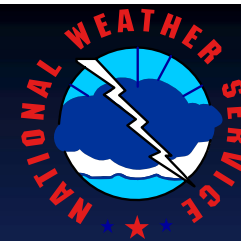


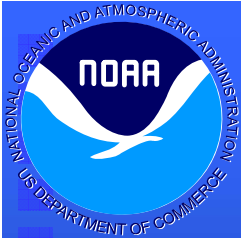
Puerto Rico and Virgin Islands



NWS Southern Region

# 122 NWS Weather, Water and Warnings Forecast Offices & your climate support offices

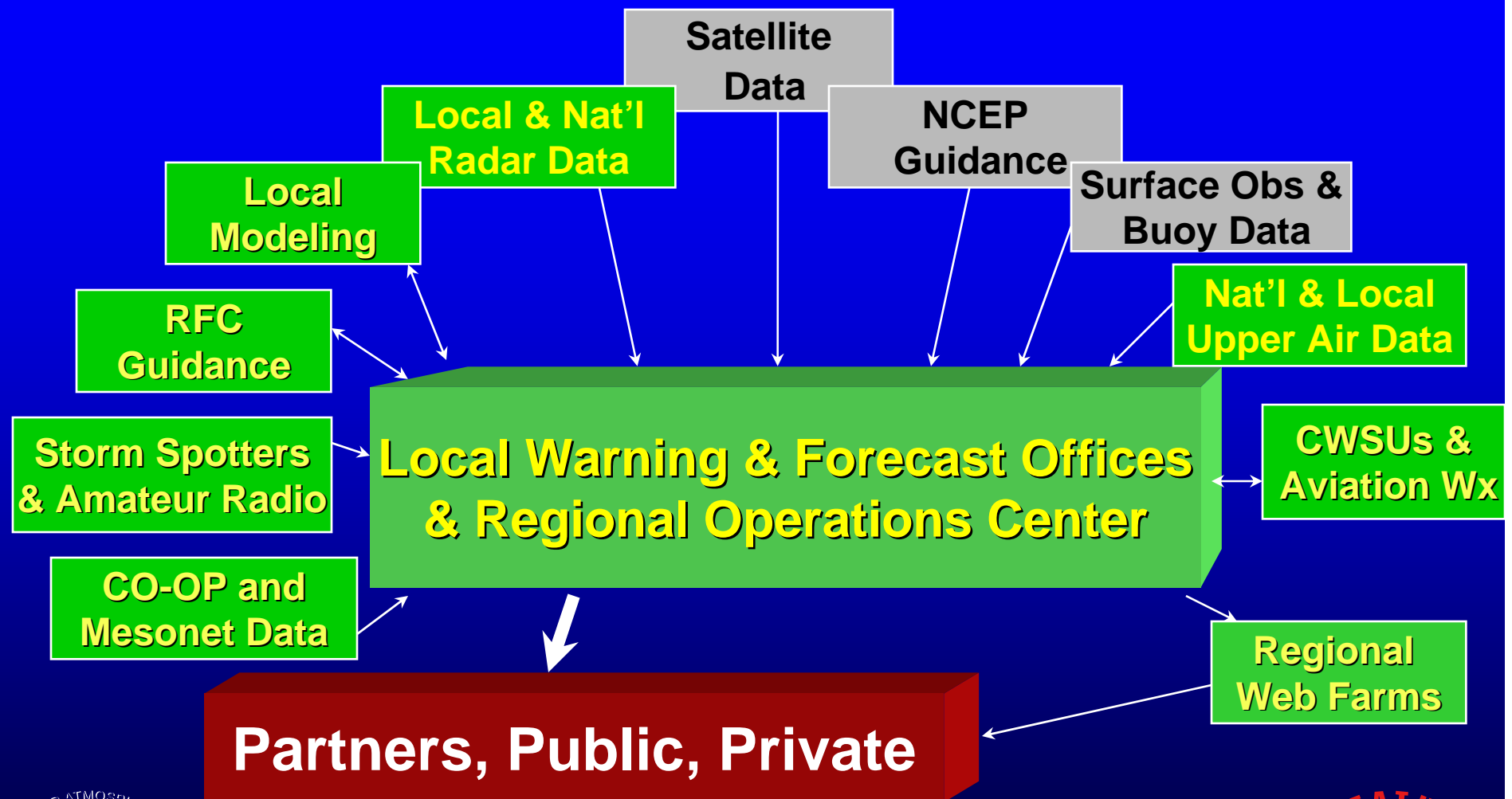




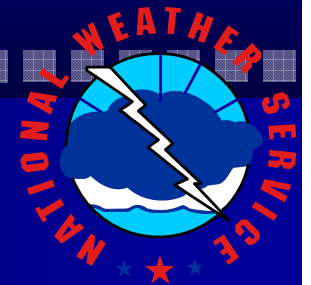
# **NOAA, NWS' has major resources committed to Climate Services**

- Each NWS Region and each of the NWS 122 WFOs has a **climate services focal point meteorologist** and a climate website
- In addition, each WFO has a dedicated **Observations/Data Program Leader** for data quality control and as manager of local CO-OP program
- Plus NWSH has a **Climate Services Division** and NWS also has the **Climate Prediction Center**
- Goal – In partnership with you, to provide national and local **strategic climate services for decision makers, researchers, academia, media, and public**

# WFOs = NWS Info + local data in realtime



NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)

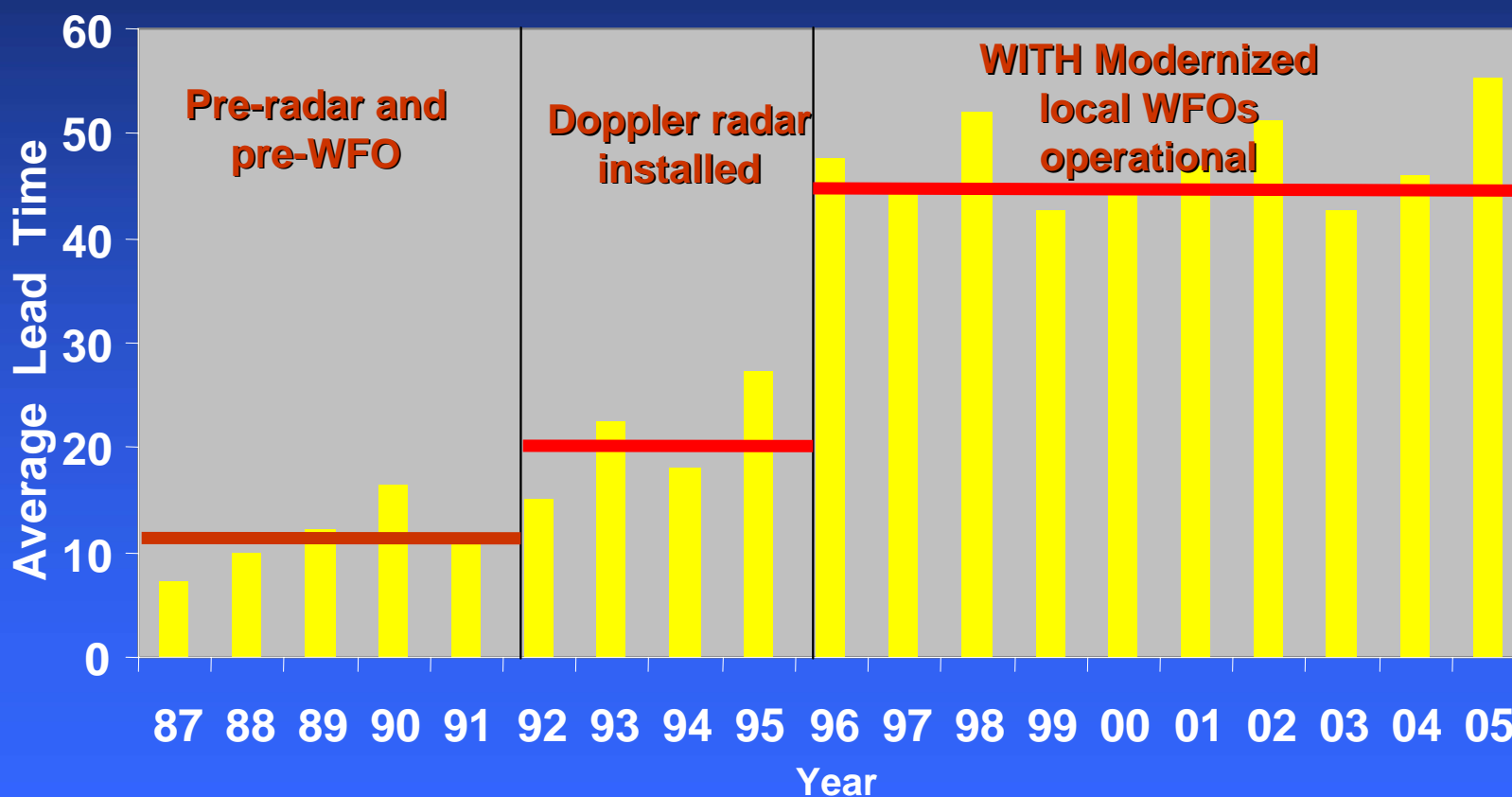


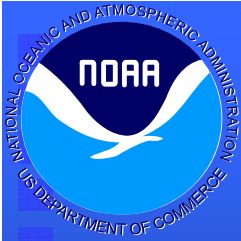


# Local WFOs Save Lives

By increasing Flash Flood Warning Lead Time

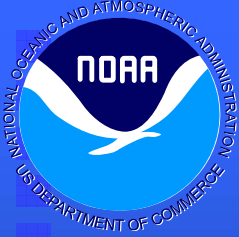
NWS Southern Region





# WFO Climate Web Services

- A standardized climate web page to facilitate user access to data and..
- ...customized local products enabling customers to see or pull needed climate information.



NWS Southern Region

# NWS Web Farms



[www.srh.noaa.gov](http://www.srh.noaa.gov)

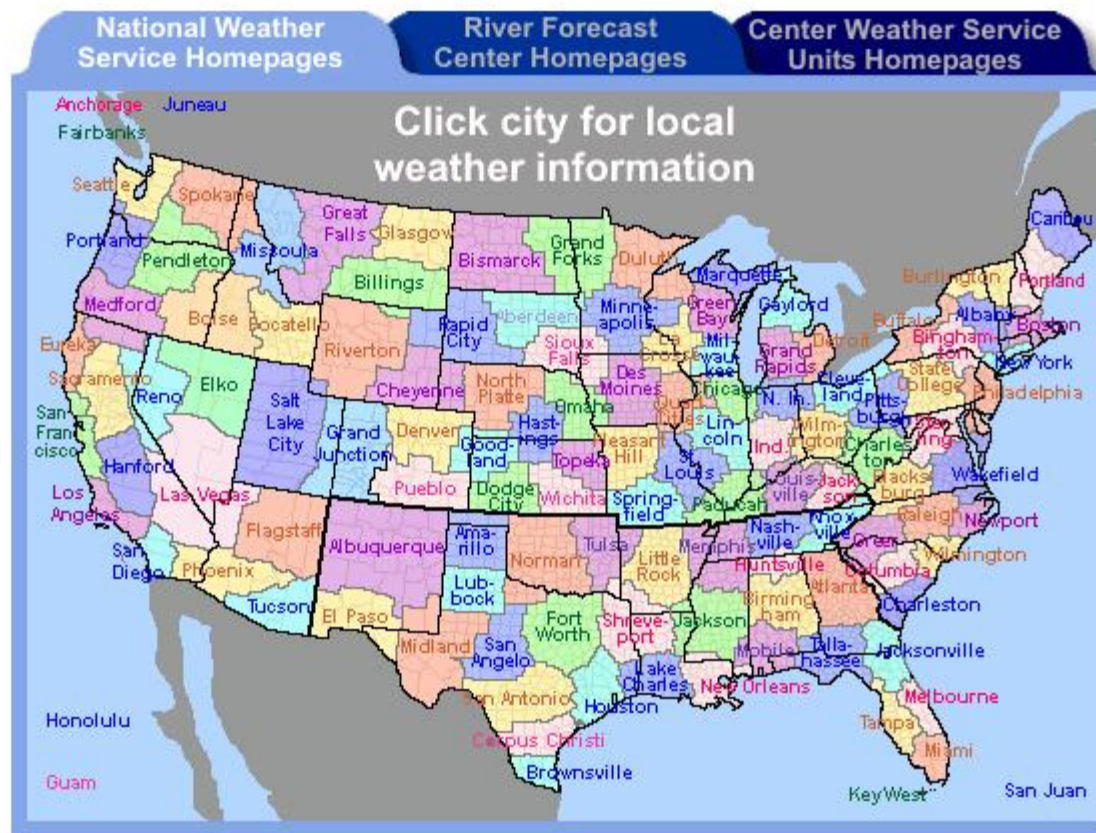
- Your one-stop **reliable 24x7 weather/climate updates**
  - ◆ **Easy navigation**
  - ◆ **Data designed in the manner customers & partners need it.**
  - ◆ **Powerful disseminator for weather & climate info**
- The most used “dynamically updated” Government websites !





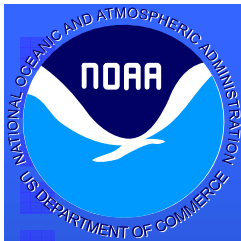
City, St

## Partners




Additional SR pages: [Spaceflight Meteorology Group](#) | [Riverwatch](#) | [NWS/FAA Academy](#)

National Weather Service • Since 1815



# Standardized Data Pages

NWS Southern Region



National Weather Service Forecast Office  
**Fort Worth, TX**

[SR News](#) [SRH Home](#) [Organization](#) [Search](#)

Local weather forecast by "City, St" or zip code

**Current Hazards**  
[North Texas](#)  
[Graphical Warnings](#)  
[National](#)

**Current Conditions**  
[Observations](#)  
[Satellite Images](#)  
[Rivers & Lakes AHPS](#)  
[Precip Estimate](#)  
[Hydrology](#)

**Radar Imagery**  
[DFW](#)  
[Central Texas](#)  
[Nationwide](#)

**Weather Forecasts**  
[North Texas](#)  
[Aviation](#)  
[Fire Weather](#)


**Climate**  
**Local**

**Top News of the Day**  
[National Lightning Safety Week - June 18-24](#)  
[Heat Safety Tips and Information](#)  
[Updated North Texas Drought Information!](#)

Products Checked: 6:21 pm cdt 06-20-06  
6:05 PM CDT Short Term 4cast   
No Refresh: Refresh Browser For Latest  
[\\* Enhanced Webpage \\*](#)

[Click on map for Point Forecast \(Point forecast?\)](#) [Submit Storm Reports](#)

Click on the map below for the latest forecast.



Last map update: Tue, Jun. 20, 2006 at 6:20:12 pm CDT

en español

Read watches, warnings & advisories.

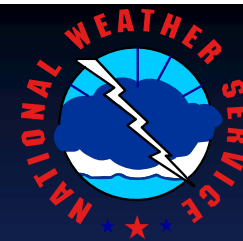
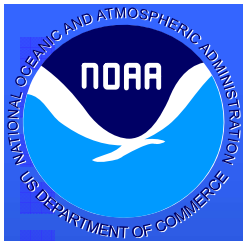
Flash Flood Watch ☐

Short Term Forecast ☐

Hazardous Weather Outlook ☐

National Weather Service





# Standardized Data Pages

NWS Southern Region

**National Weather Service Forecast Office**  
**Fort Worth, TX**

Home News Organization Search for:

Local forecast by "City, St"  
City, St Go

Current Hazards  
North Texas  
Graphical Warnings  
National  
Current Conditions  
Observations  
Satellite Images  
Rivers & Lakes  
AHPS  
Hydrology  
Radar Imagery  
DFW Radar  
Central Texas Radar  
Nationwide  
Weather Forecasts  
North Texas  
Aviation  
Fire Weather  
Climate  
North Texas

Observed Weather Climate Locations Climate Prediction Climate Resources Local Data/Records Astronomical NOWData

**Observed Weather Reports**

1. Product »  
☒ Daily Climate Report (CLI)  
☐ Preliminary Climatology Data (CF6)  
☐ Record Event Report (RER)  
☐ Monthly Weather Summary (CLM)  
☐ Regional Summary (RTP)  
☐ State Summary (Temp/Precip)

2. Location »  
Dallas/Ft. Worth Intl Apt  
Waco Regional Airport

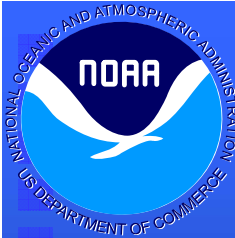
3. Timeframe »  
☒ Most Recent  
☐ Archived Data:  
June 18th, 2006  
June 17th, 2006  
June 16th, 2006  
June 15th, 2006  
June 14th, 2006

4. View »  
Go

Storm Event Database (SPC)  
Storm Data (HCDC)


**Product Description:**  
DAILY CLIMATE REPORT - issued daily:  
Detailed daily weather statistics (usually for yesterday), including temperature, precipitation, degree days, wind, humidity, sunrise/sunset, and record temperature data for the following day. Precipitation data includes both calendar year and water year totals, percent of normal values, and comparisons to normal. This product is available for up to 2 months.

All 122 WFOs have this same standard Climate Page



# Local Customized Climate Pages



**National Weather Service Forecast Office**  
**Fort Worth, TX**

Home      News      Organization

**Local forecast by**  
"City, St" or zip code

**Current Hazards**  
North Texas  
Graphical Warnings  
Outlooks

**Current Conditions**  
Observations  
Satellite images  
Rivers & Lake AHPs

**Radar Imagery**  
DFW  
Central Texas  
Nationwide  
Experimental Ridge

**N. Texas Forecasts**  
Point-n-Click  
County Averaged  
Digital (AFM)  
Graphical AFM  
Forecast Images  
Aviation  
Fire Weather  
Fcst Type Guide

## North Central Texas Climatology

(Jump to: State of Texas Climatology - National Climatology)

- **F6 Data** (Daily High, Low and Precipitation Data)
- **Dallas/Fort Worth Climatology**
- **Waco Climatology**
- **Astronomical Data** for North Central Texas.  
Dates and times of the beginnings of the seasons.  
Easter sunrise times.
- **Monthly Precipitation Maps**
- **Yearly Rainfall (2000-2005) for Coop Sites**
- **North Texas Climate Summary for selected locations**  
(in addition to DFW and Waco)  
Annual Rainfall for North Central Texas. Average First and Last Freezes.  
Temperature Extremes. Average and Extreme Number of 100°F Days.
- **Wind Data**  
(statewide data from TCEQ)  
Wind roses for Dallas/Fort Worth, Waco, and Stephenville (as well as other locations across the state of Texas)

**But data still available to fulfill local needs.**



# Local WFO Climate Services

- **Local NWS Offices** deliver climate services in collaboration with **state climatologists**, **Regional Climate Centers**, **RISA**, **academia**, **water & river authorities** and the **public/private sector**.
- Products emphasize **local and regional impacts** (i.e. **drought**, **agriculture**, **fire weather**, **water use/hydrology**, etc.)
- Products & info are on internet in **text** format and **graphics** (& expanding to **GIS** products)



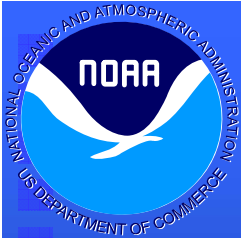
# 2005/2006 Drought and Fires: High Impact on Southern US

NWS Southern Region

	Fires	Acres Burned	Houses Destroyed
<b>Texas</b>	1873	1,343,914	345 *19 fatalities
<b>Oklahoma</b>	1629	558,383	238
<b>Florida</b>	3287	178,913	42
<b>New Mexico</b>	700	400,000	?
<b>Arkansas</b>	2019	36,670	34

For FL and TX, these are the highest values since the La Nina of 1998.



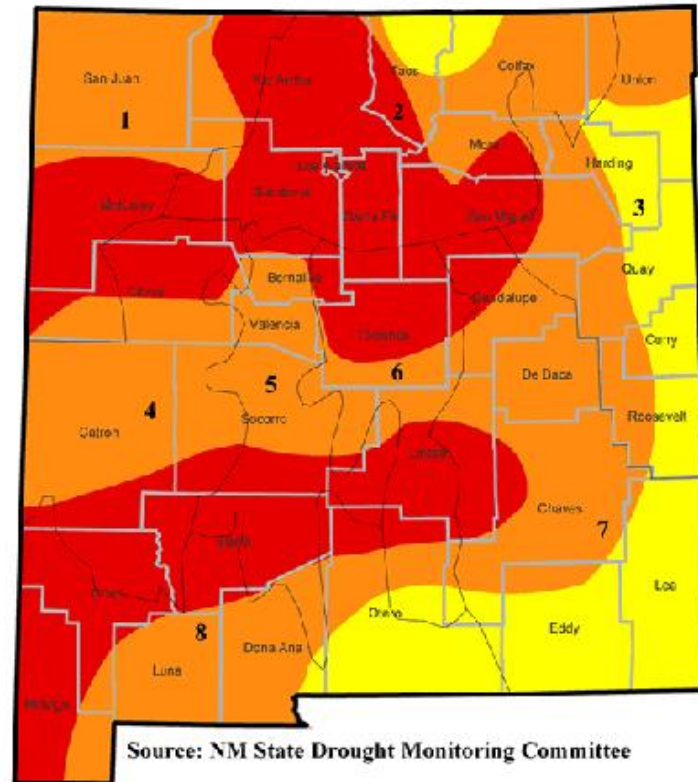


NWS Southern Region

# A WFO WEB Climate Service



**Meteorological Drought Status Map  
June 2006**



Source: NM State Drought Monitoring Committee

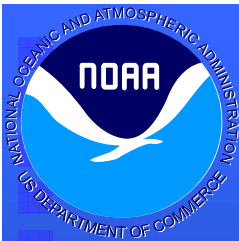
**Drought Status**



**Climate Divisions**

- |                          |                       |
|--------------------------|-----------------------|
| 1 Northwestern Plateau   | 5 Central Valley      |
| 2 Northern Mountains     | 6 Central Highlands   |
| 3 Northeastern Plains    | 7 Southwestern Plains |
| 4 Southwestern Mountains | 8 Southern Desert     |


Many WFOs active in statewide drought monitoring committees.



# A WFO's ENSO Downscale as a Local Climate Service



NWS Southern Region



## National Weather Service Forecast Office Melbourne, FL

[Home](#)[News](#)[Organization](#)[Search](#)

Local weather forecast by "City, St" or zip code

**Current Hazards**  
East Central FL  
National


**Current Conditions**  
Observations  
Satellite Images  
Rivers & Lakes AHPS  
Precip Estimate  
Hydrology


**Radar Imagery**  
Melbourne  
Nationwide


**Forecasts**  
Text Products  
Graphical  
Aviation  
Marine  
Fire Weather  
Local Meso Model


**Climate**  
Local  
National


**SELECT:**


 Seasonal Outlook


 El Nino Discussion


 Storminess


 Rainfall

 Temperature

 Education & Research

 Seasonal Summaries

 Disclaimer

 Feedback

### 2005-2006 Experimental Dry Season Forecast for Florida

(Valid for period November 1st 2005 through April 30th 2006)

These pages contain experimental products that will be posted for evaluation through April 30th, 2006. During this period, we encourage your comments and suggestions for improvements using the survey available [here](#).

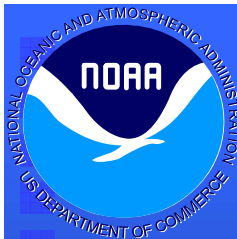
#### 2005-2006 Experimental Florida Dry Season Forecast Updated JAN 2, 2006

EL Nino	Storminess	Rainfall	
	0%	15%	Well Above Normal
+1.0	8%	15%	Above Normal
+0.50			
0	18%	31%	Normal
-0.50	56%	31%	Below Normal
-1.0	18%	8%	Well Below Normal

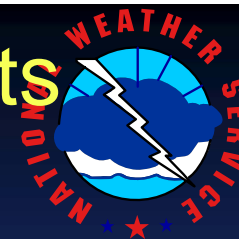
[La Nina](#)

[Past Seasonal Forecasts](#)

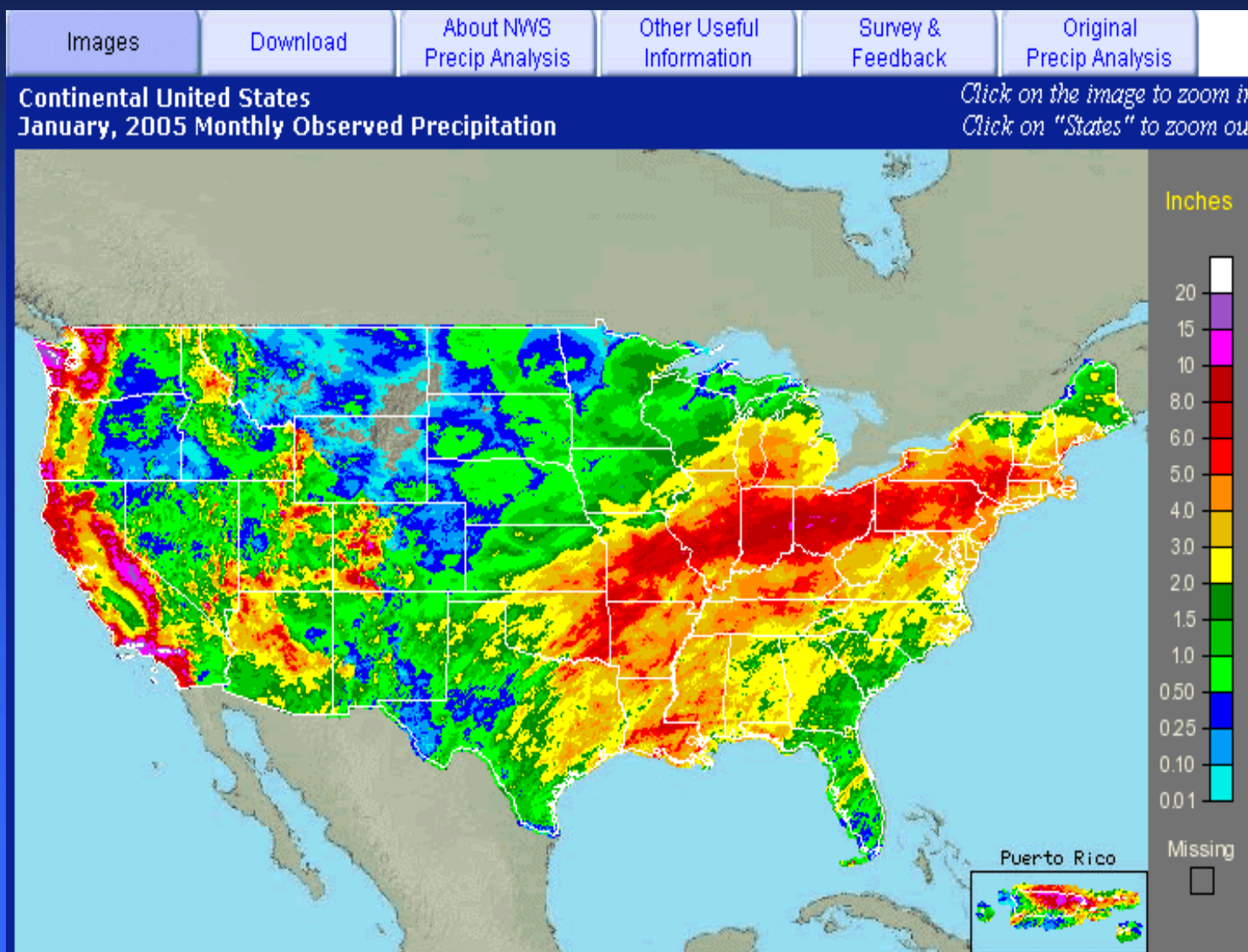


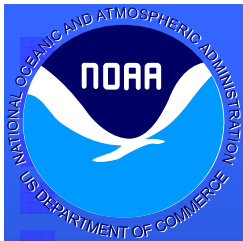


# NWS Southern Region Develops/Hosts National Precipitation Analysis Tool

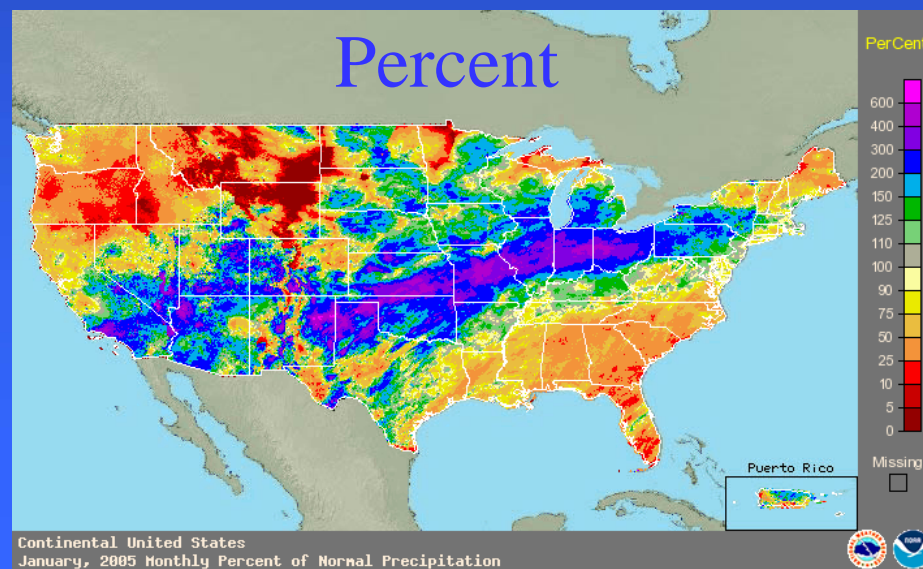
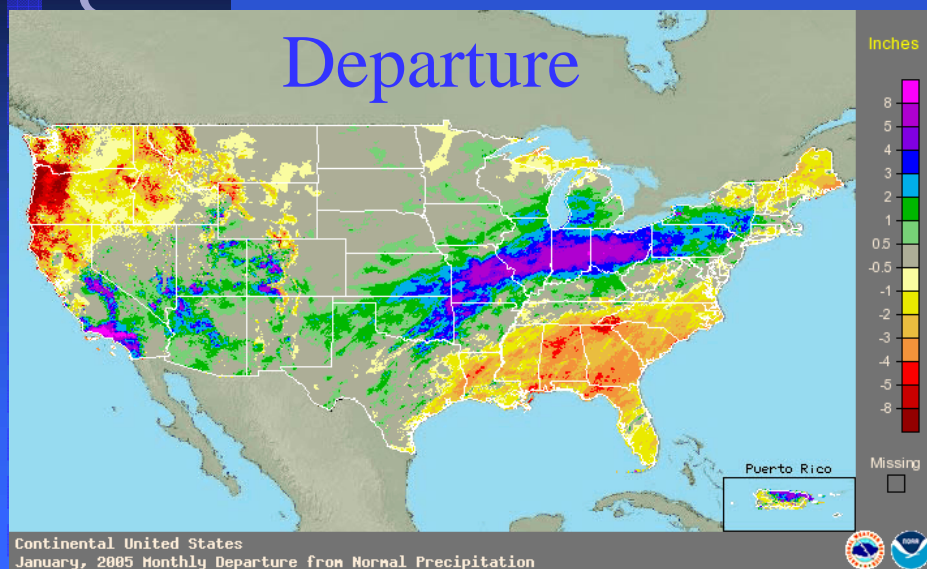
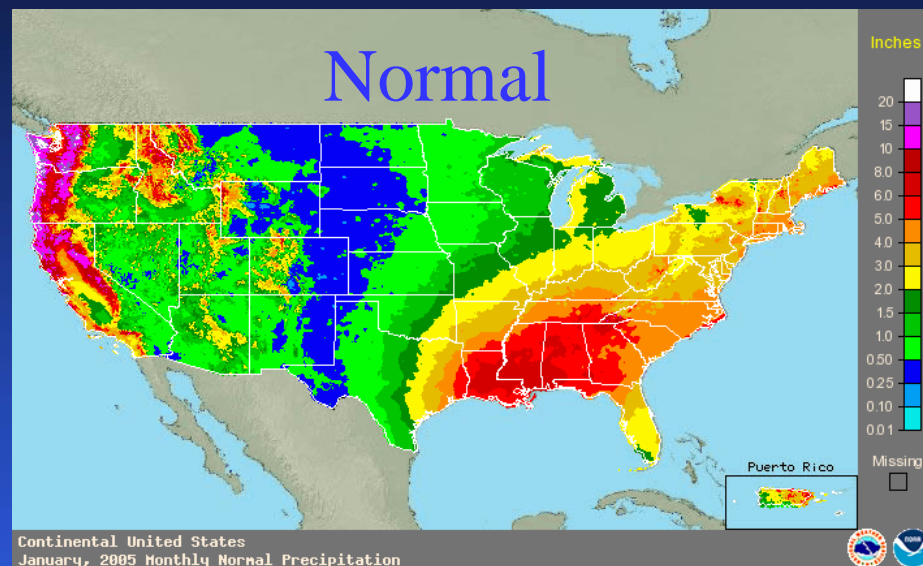
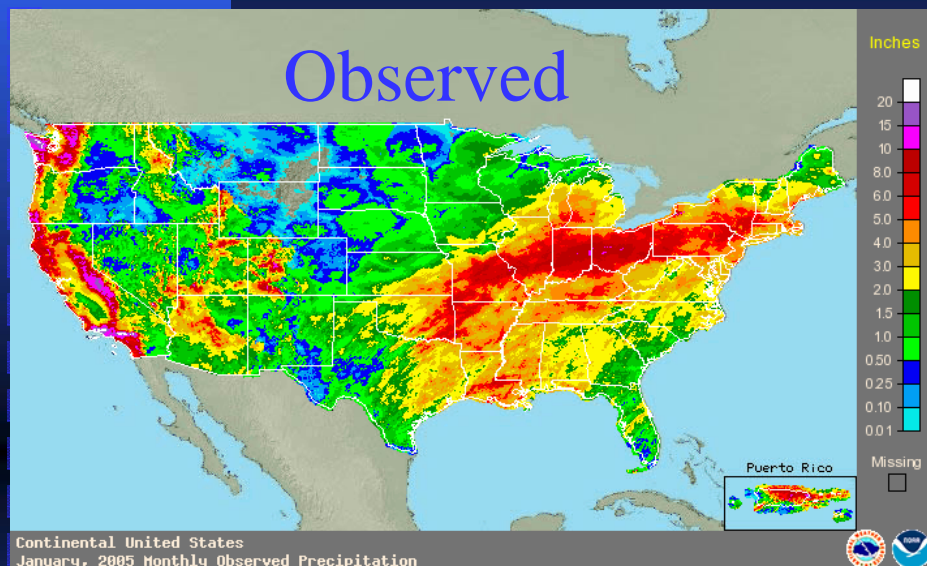
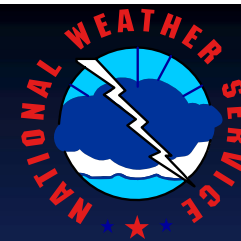


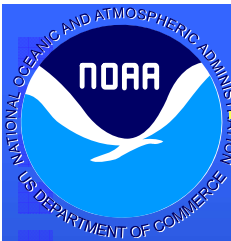
NWS Southern Region



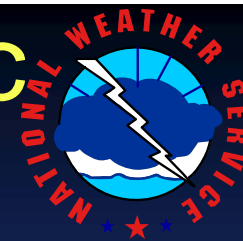


# NWS National Climate Graphic Precipitation Analysis Tool



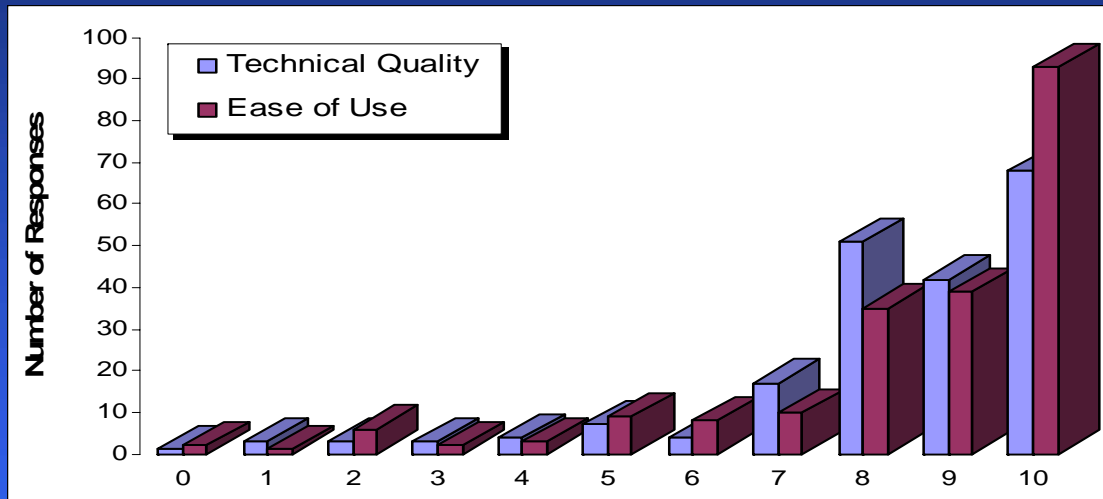


# NWS National Climate Graphic Precipitation Analysis Tool



NWS Southern Region

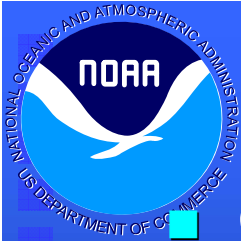
Important to stay tuned (survey) our customers and partners for feedback



“I farm for a living, and I expect it to play a large part in planning and explaining weather affecting the operation of the farm.” (New Ulm, MN)

“I will use this information to help make decisions in the flood warning and emergency response activities of a large county government.”  
(Seattle, WA)





# New NWS GIS Radar Webpages



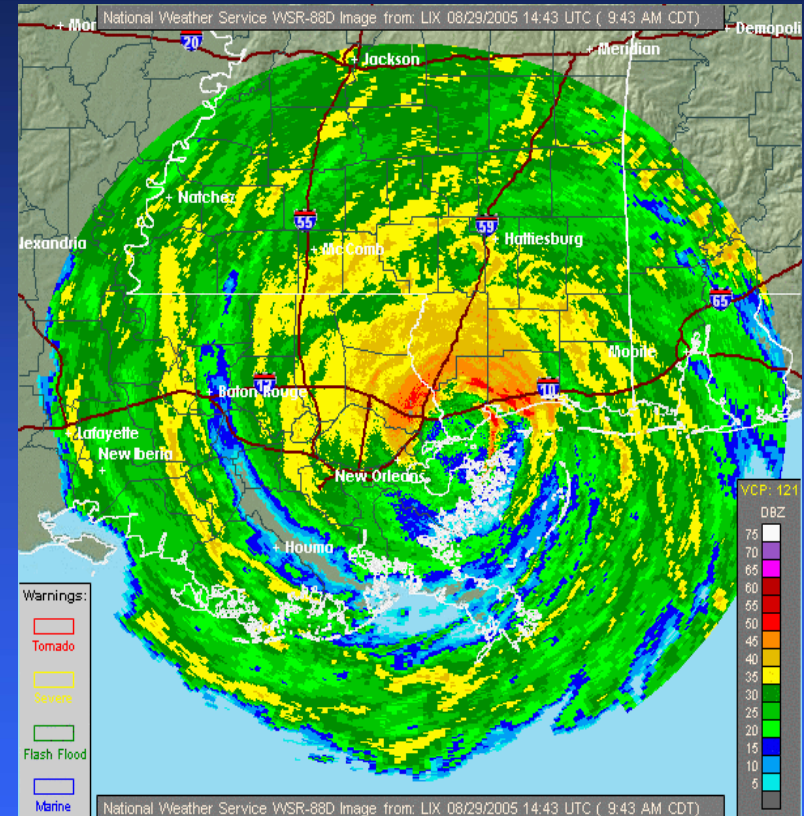
NWS Southern Region

- GIS Radar images & warning polygons displayed exactly and time looped. You can download to your GIS software, water basin of concern etc.

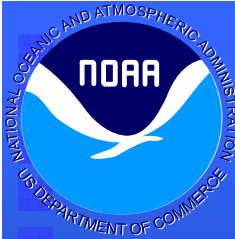
- Calculates distance, e.g. storm point to point of interest. Lat & Long exact.

- 1st time: with *velocity* data.

- *Southern Region initiative, national as of Feb 21, 2006*



[www.srh.weather.gov/ridge](http://www.srh.weather.gov/ridge)



# NWS Radar network: 122 WFOs



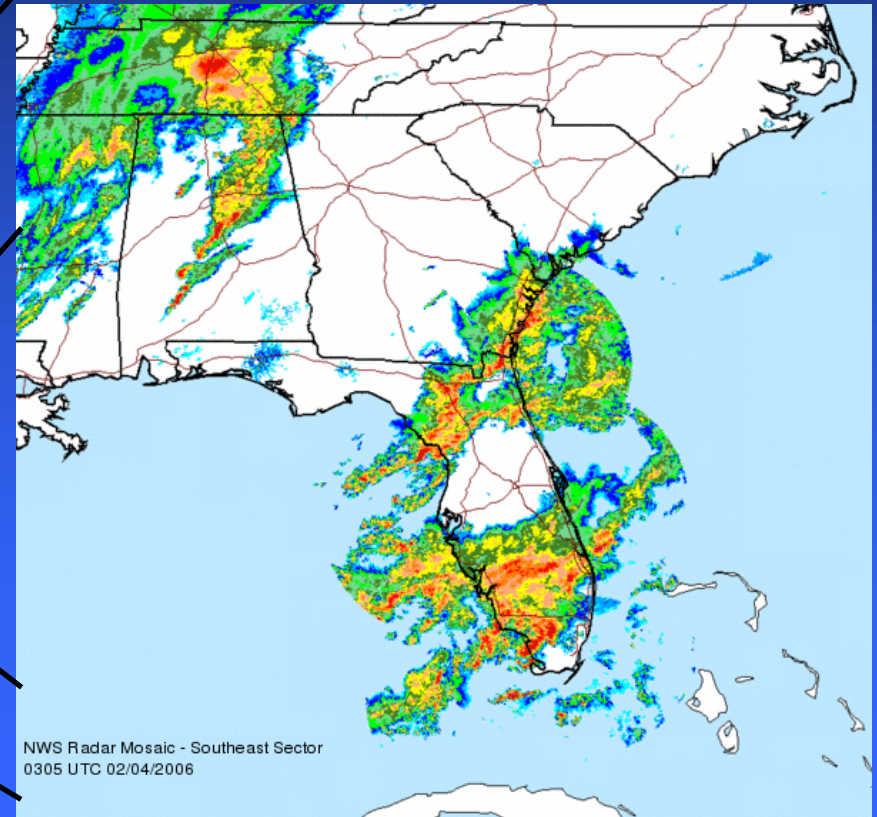
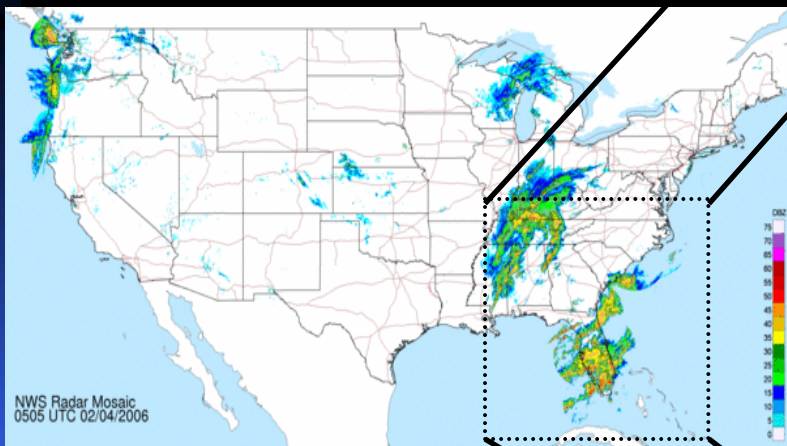
- ◆ Critical to NWS mission
  - ◆ Used by EM's, Mets, local govts, media and public
  - ◆ Used by NWS for warning and forecast decisions
- ◆ NWS Radar Web GIS Depiction is in demand
  - ◆ During land-falling hurricanes, WFO coastal radar account for **50%** of our internet data hits (**nearly 1.5 BILLION** hits during Katrina and Rita)
- ◆ Positive Feedback
  - ◆ Southern Region developed and operationally tested the new GIS “RIDGE” radar internet depiction & simply overwhelmed by the tens of thousands of comments. Expanded nationally to all NWS regions.



# With GIS Radar: Improved National and Regional Mosaics

<http://www.srh.noaa.gov/ridge>

NWS Southern Region



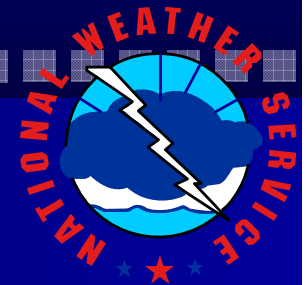
# Give us your vision and needs for better NOAA, NWS climate services

Improvements are built on the value of local tailored services (Climate/Met Services & Emergency Management communities and the media)–

*...Mesoscale (local scale) climate information and digital weather forecasts, local “mesonets”, a modernized CO-OP program, finer radar resolution with faster volume scans....all assimilating into finer scale local modeling, “tactical met” support to EM and first responders... to save lives and support better informed decisions.*



NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)





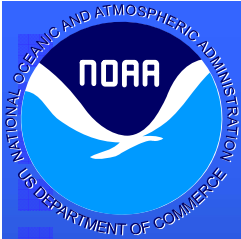
NWS Southern Region

**The NWS Modernization was based on Mesoscale Mission Delivery.**

**The resulting  
measured performance successes by  
all local WFOs and RFCs epitomizes  
the concept:**

**...government closest to the people,  
serves best!**





NWS Southern Region



**We in NOAA/National Weather Service  
need your partnership in further  
evolving an era of climate services  
fully tuned-in to local, state and/or  
river basin strategies that will be of  
great benefit to our Nation.**

**What a team! ...regardless of the debate  
on the “why” for climate variability.  
Together we will make a difference.**



# Discussions & Questions?

Bill Proenza, Regional Director  
National Weather Service - Southern Region  
Fort Worth, Texas

**Find this presentation at:**

**[www.srh.noaa.gov](http://www.srh.noaa.gov)**

Click on: "Welcome from the Director"

Click on: "NOAA/NWS Santa Fe Climate"

NWS Southern Region